

09/639870

Michael Dejack

## EAST SEARCH

12/1/03

L#	Hits	Search String	Databases
L2	2	5,197,120.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2	5,070,534.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	2	5,111,413.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	1662	CAD and ("finite element mesh" or "mesh model" or mesh)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	44	CAD and "finite element mesh"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L9	208	finite element mesh	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	4	finite element mesh and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	46	(CAD and ("finite element mesh" or "mesh model" or mesh)) and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L12	0	CAD and ( mesh with model) and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L13	21	( mesh with model) and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	2	( mesh with (polyhedral or polyhedron)) and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	2758	finite element analysis	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	122	finite element analysis and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	3326	finite element analysis or "finite element model"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	2	("finite element analysis" or "finite element model") with mesh) and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L8	170	("finite element analysis" or "finite element model") with mesh	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	133	("finite element analysis" or "finite element model") and fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L9	7	("finite element analysis" or "finite element model") with fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L10	11	("finite element analysis" or "finite element model") same fastener	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L11	11	finite element mesh and ((cylindrical or helical) with coordinate\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	2	((("finite element analysis" or "finite element model") and fastener) and ((cylindrical or helical)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	13	((("finite element analysis" or "finite element model") with mesh) and ((cylindrical or helical) wit	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L1	38	("finite element analysis" or "finite element model") and (thread\$2 with fastener)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	3	("finite element analysis" or "finite element model") and ( helical with coordinate\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	0	( helical adj coordinate\$1) and (thread\$2 with fastener)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	0	( helical adj coordinate\$1) and (fastener)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	0	( helical adj coordinate\$1) and "finite element"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
	19	helical adj coordinate\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

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## EAST SEARCH

12/1/03

Results of search set L10: ("finite element analysis" or "finite element model") and (thread\$2 with fastener)

Document/Kind Codes Title

Issue Date

Current OR

Abstract

US 20030196992 A1	Sub-micron adjustable mount for supporting a component and method	20031023	219/117.1
US 20030179544 A1	Digital storage element mechanical shock isolation arrangement in a host device and method	20030925	361/685
US 20030148819 A1	Method and apparatus for improving dynamic response of golf club	20030807	473/316
US 20030145555 A1	System for reinforcing extruded beams	20030807	527/31.3
US 20020182079 A1	AIRFOIL BLADE AND METHOD FOR ITS MANUFACTURE	20021205	416/186R
US 20020170161 A1	Precisely repositioning powder metal components	20021121	29/505
US 20020157908 A1	Brake hub with floating rotor and mounting flange allowing simplified rotor removal and replacement	20021031	188/218XL
US 20020122730 A1	Pressure washer having oilless high pressure pump	20020905	417/299
US 20020092351 A1	Dynamic balance correction station for a disc drive	20020718	73/468
US 20020027999 A1	Acoustic device	20020307	381/431
US 6614560 B1	Integrated camera circuit including image sensor, image processing, and printer drive circuits	20030902	358/443
US 6604613 B2	Brake hub with floating rotor and mounting flange allowing simplified rotor removal and replacement	20030812	188/218XL
US 6568274 B1	Capacitive based pressure sensor design	20030527	73/718
US 6550328 B1	Dynamic balance correction for a disc drive	20030422	73/468
US 6508627 B2	Airfoil blade and method for its manufacture	20030121	416/186R
US 6487036 B1	Vibratory feeder for dispensing balance correction members for securing to a disc drive disc	20021126	360/97.01
US 6484575 B2	Dynamic balance correction station for a disc drive	20021126	73/487
US 6467394 B1	Oilless high pressure pump	20021022	92/150
US 6422755 B1	Precisely repositioning powder metal components	20020723	384/433
US 6332029 B1	Acoustic device	20011218	381/152
US 6267210 B1	Brake hub with floating rotor	20010731	188/218XL
US 6196739 B1	Paper guide system in a print on demand digital camera system	20010306	400/582
US 6120273 A	Rotary-linear vane guidance in a rotary vane pumping machine	20000919	418/255
US 6095109 A	Method for improved sealing between members of fastened joint	20000801	123/195R
US 6074121 A	Fastening lug	20000613	403/362
US 6073326 A	Lap splice mini-riveter system	20000613	29/34B
US 6045310 A	Composite fastener for use in high temperature environments	20000404	411/383
US 6042315 A	Fastener	20000328	411/411
US 6029525 A	Capacitive based pressure sensor design	20000229	73/718
US 5927921 A	Enhanced fatigue nut	19990727	411/427
US 5895033 A	Passive balance system for machines	19990420	267/161
US 5738476 A	Fastener	19980414	411/508
US 5605457 A	Implant connector	19970225	433/174
US 5485873 A	Knife clamping system	19960123	144/162.1
US 5450373 A	Apparatus for transmitting two frequency signals with an acoustic projector	19950912	367/142
US 5403150 A	Bearing insulating system for aircraft turbocharger	19950404	415/177
US 5127784 A	Fatigue-resistant buttress thread	19920707	411/414
US 4661031 A	Fatigue resistant fastener assembly	19870428	411/263


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## Results

- 16 articles found for: ("finite element" or FEA) and fastener and thread?

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- ☐ 1. **New products**  
 Anonymous. **Machine Design**. Cleveland: Nov 8, 2001. Vol. 73, Iss. 21; p. 110 (15 pages)  
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- ☐ 2. **Autodesk Mechanical Desktop 6**  
 John Wilson. **Cadence**. San Francisco: Nov 2001. Vol. 16, Iss. 11; p. 29 (3 pages)  
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- ☐ 3. **A brief introduction to nonlinear analysis**  
 Paul J Dvorak. **Machine Design**. Cleveland: Jul 6, 2000. Vol. 72, Iss. 13; p. 72 (2 pages) ✓  
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- ☐ 4. **New products**  
 Anonymous. **Machine Design**. Cleveland: Apr 6, 2000. Vol. 72, Iss. 7; p. 152 (21 pages) X  
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- ☐ 5. **Joining using adhesives**  
 R.D. Adams, J. Comyn. **Assembly Automation**. Bedford: 2000. Vol. 20, Iss. 2; p. 109  
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- 
- ☐ 6. **Power packs expand product capabilities**  
 Bill Fane. **CADalyst**. Eugene: Oct 1999. Vol. 16, Iss. 10; p. 50 (1 page)  
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- 
- ☐ 7. **Can you glue a car together?**  
 Jeff Sabatini. **Automotive Design & Production**. Cincinnati: Aug 1999. Vol. 111, Iss. 8; p. 48 (4 pages)  
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- 
- ☐ 8. **Joining systems save time, money, lives**  
 Joe Jancsurak. **Appliance Manufacturer**. Troy: Jun 1999. Vol. 47, Iss. 6; p. 37 (7 pages)  
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- 
- ☐ 9. **MicroStation modeler/J**  
 Bob Martin. **Computer-Aided Engineering**. Cleveland: May 1999. Vol. 18, Iss. 5; p. 50 (3 pages)  
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- ☐ 10. Finite element analysis of machine elements A bibliography(1977-1997)  
Jaroslav Mackerle. *Engineering Computations*. Bradford: 1999. Vol. 16, Iss. 6; p. 677

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- ☐ 11. **Roof bolting adds stability to weak strata**  
 Syd S Peng. *Coal Age*. Overland Park: Dec 1998. Vol. 103, Iss. 12; p. 32 (5 pages)  
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- ☐ 12. **The significance of bolts in the thermal performance of curtain-wall frames for glazed facades / Discussion**  
 Brent Griffith, Elizabeth Finlayson, Mehrangiz Yazdanian, Dariush K Arasteh, et al. *ASHRAE Transactions*. Atlanta: 1998. Vol. 104; p. 1063 (7 pages)  
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- ☐ 13. **Integral attachment using snap-fit features: a key to assembly automation. Part 1 - introduction to integral attachment using snap-fit features**  
 Messler, Robert W., Genc, Suat, Gabriele, Gary A.. *Assembly Automation*. Bedford: 1997. Vol. 17, Iss. 2; p. 143  
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- ☐ 14. **Maintenance: Tips & tricks**  
 Anonymous. *Plant Engineering*. Barrington: Aug 1996. Vol. 50, Iss. 9; p. 83 (8 pages)  
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- ☐ 15. **Software brings no-surprise joint designs**  
 Beyerle, Richard. *Machine Design*. Cleveland: Jan 25, 1996. Vol. 68, Iss. 2; p. 55 (3 pages)  
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- ☐ 16. **Multivariable effects on an automatic screw-torquing process**  
 Malek, S S, Chiang, Y J, Mason, J E. *Journal of Manufacturing Systems*. Dearborn: 1993. Vol. 12, Iss. 6; p. 457 (6 pages)  
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- ☐ 1. **Radial-diaphragm valve overcomes entrapment problems**  
 Bruce Wiebusch. **Design News**. Boston: Jul 17, 2000. Vol. 55, Iss. 14; p. 63 (2 pages)  

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- ☐ 2. **A brief introduction to nonlinear analysis**  
 Paul J Dvorak. **Machine Design**. Cleveland: Jul 6, 2000. Vol. 72, Iss. 13; p. 72 (2 pages)  

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- ☐ 3. **100 ways to get ahead in your career**  
 Anonymous. **Design News**. Boston: Jul 3, 2000. Vol. 55, Iss. 13; p. 68 (10 pages)  

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[Abstract](#)
- ☐ 4. **A cornucopia of tube and wire**  
 Richard Barrett. **Metal Bulletin Monthly**. London: Jul 2000. p. 52 (4 pages)  

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[Abstract](#)
- ☐ 5. **Composite Wing Box Tested to Failure**  
 Edward H. Phillips. **Aviation Week & Space Technology**. New York: June 19, 2000. Vol. 152, Iss. 25; p. 37  

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[Abstract](#)
- ☐ 6. **Airplane electronics design takes off**  
 Benjamin B Ames. **Design News**. Boston: Jun 19, 2000. Vol. 55, Iss. 12; p. 99 (2 pages)  

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- ☐ 7. **Engineering agility test**  
 Benjamin B Ames. **Design News**. Boston: May 15, 2000. Vol. 55, Iss. 10; p. 77 (3 pages)  

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- ☐ 8. **Reinventing 3D mechanical design**  
 Joe Greco. **Computer - Aided Engineering**. Cleveland: May 2000. Vol. 19, Iss. 5; p. MS14 (3 pages)  

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- ☐ 9. **Depth perception**  
 John Siegethaler. **Plumbing & Mechanical**. Troy: May 2000. Vol. 17, Iss. 3; p. 56 (4 pages)  

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**1** Three dimensional threaded fastener meshing algorithm 94%



Paul Kinney , Dave Strenski

**Proceedings of the sixth ACM symposium on Solid modeling and applications** May 2001

Understanding the stresses in the root of a thread of a bolt has never been easy. Ideally one would like to put a strain gage right at the root and measure them directly, but the placement of the gage and its wires are impossible without changing the insitu environment. Engineers then turned to analytical models, but soon discovered that two dimensional models where not giving the correct results because the geometry is not axis symmetric and three dimensional models where too difficult to me ...

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### [PDF] DEVELOPMENT OF GIANT MAGNETORESISTIVE INSPECTION SYSTEM FOR ...

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... is scanned about the circumference of the **fastener**. ... Nulling Probe FIGURE

#### 1. **Finite**

**element** modeling results ... plates fastened together with **threaded** rivets to ...

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... using numerical techniques such as the **finite element** method and ... for both metric and imperial **threaded** fasteners. ... effect of changes in the **fastener** design and ...

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### Tiscali - Search

... is a recognized expert in the field of **threaded fastener** and rivet ... 9000 auditor/trainer for Quality and Manufacturing. 45. **Finite Element** Analysis Consultancy ...

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### [PDF] Gap Analysis in Flanged Unions

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... 6 References /1/ Blake, Alexander (1986), **Threaded** fasteners ... 6/ Zahavi, Eliahu (1992), The **finite element** method in ... and the bolts of specifying **fastener** torque ...

[www.imw.tu-clausthal.de/wwwrd/papers/InstMit\\_2000/2000\\_169\\_tajonar.pdf](http://www.imw.tu-clausthal.de/wwwrd/papers/InstMit_2000/2000_169_tajonar.pdf) - [Similar pages](#)

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... Sheet metal - 1 Company **Fastener** Tension Control ... Resistant - 1 Company Fasteners - **Threaded** - 15 Companies ... Metal - 2 Companies **Finite Element** Analysis - 25 ...

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### Marshall Begel, Engineer for the USDA Forest Products Laboratory ...

... Nut: This connection uses a **threaded** steel rod ... Powder-Driven **Fastener** Connections: These connections use steel ... on a 25-year-old **finite element** analysis that ...

[www.fpl.fs.fed.us/eml/mb.htm](http://www.fpl.fs.fed.us/eml/mb.htm) - 9k - [Cached](#) - [Similar pages](#)

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... of computer-aided design (CAD) and more user friendly **finite element** analysis (FEA ... Ball connectors normally use a **threaded fastener** to connect the ball to the ...

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### Stress testing

... of **threaded fastener** and rivet applications. ... engineering consulting (CAD, solid modeling design; **finite element** analysis, stress/dynamics, vibrations (modal ...

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### Consulting

... Bill is a recognized expert in the field of **threaded fastener** and rivet ... com An engineering group specialized in the application of **finite element** method to ...

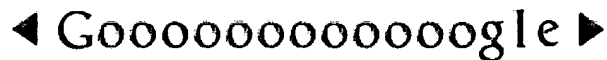
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... Screws are **threaded** fasteners that hold things together or ... Choudhury, and Green (1991) used **finite-element**-modeled data ... of the change in length of the **fastener**; ...

www.mines.edu/fs\_home/jsteele/411/Lectures/ L36-40Fasteners/L36-40Fasteners.doc - [Similar pages](#)



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### DOE Information Bridge Document #8218 - A Finite Element ...

... A **finite element** analysis of the thread forming process using implicit modeling ... Results

also indicate that a rolled **threaded fastener** loaded to an average ...  
[www.osti.gov/dublincore/gpo/product.biblio.jsp?osti\\_id=8218](http://www.osti.gov/dublincore/gpo/product.biblio.jsp?osti_id=8218) - 13k - [Cached](#) -

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based techniques, such as **finite element** analysis, have allowed ...

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### Monotonic and Cyclic Behaviour of Slender Dowel-Type Fasteners -

...

... 5 mm diameter which feature a **threaded** end on ... fasteners was modeled using a **finite element** program based ... program was extended to include **fastener** head behaviour ...

[www.alexschreyer.de/projects/masters/](http://www.alexschreyer.de/projects/masters/) - 13k - [Cached](#) - [Similar pages](#)

### homework

... 31, 4, Solve 4.56 using **finite element** methods, Feb, ... For **Threaded Fasteners**: Locate and request information from 2 sources using printed ... 9, 5, 12, 6, **Fastener Homework**, ...

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### [PPT] Uncertainties in design

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... 3. Get washer thickness from Table E 32. 4. Calculate **threaded** length. ... 8. Calculate **fastener** stiffness. 11/22/03. ... 7. Member stiffness. **Finite element** analysis (FEA). ...

[www.baeg.engr.uark.edu/Academics/BAEG3803/slides%5C9wk9fastener.ppt](http://www.baeg.engr.uark.edu/Academics/BAEG3803/slides%5C9wk9fastener.ppt) - [Similar pages](#)

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... Aircraft, • Fasteners: Self-Locking, • Rods: **Threaded**. ... Categories of fasteners, **fastener** manufacturers, stainless ... Moldflow & **Finite Element** Analysis, Rapid ...

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### Computer Software Development

... available application for design and evaluation of **threaded fastener** joints. ... of the automated substructuring of very large **finite element** analysis models (for ...

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... Kapton insulated signal wire attached with **threaded fastener** to radius. FC #1 - #3  
graphite collector. ... **Finite element** code ABAQUS utilized for numerical solution. ...  
[www.sns.gov/.../Publications%20and%20Presentations/ellis\\_ed-fc\\_fdr.ppt](http://www.sns.gov/.../Publications%20and%20Presentations/ellis_ed-fc_fdr.ppt) - [Similar pages](#)

### Autodesk Mechanical Desktop 6

... The Power Pack enables you to easily create **threaded fastener** components of ... perform  
3D stress and deformation calculations using **finite element** analysis (FEA ...  
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### Dept of Chemical Engineering, IIT Madras

... Extruder . For modeling the screw-extruder, a system of non-orthogonal **helical coordinates** and **Finite Element** Method were used. The ...  
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... P- and hp-finite element methods use higher-order elements and offer significant ... has  
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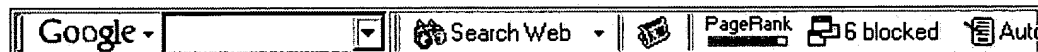
... same general purpose stabilized Galerkin convection/diffusion **finite element** algorithm  
to ... Effects in a Single Screw Extruder using **Helical Coordinates** Author(s ...  
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